N61165.AR.005767
CNC CHARLESTON
5090.3a

GROUNDWATER REMEDIATION SYSTEM LOG FEBRUARY 1995 DEFENSE FUEL SUPPLY POINT (DFSP) CNC CHARLESTON SC
03/02/1995
NAVFAC SOUTHERN

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

RECEIVED
MAR 2 1995

FEB 1 95
Date

PAUL CONOLER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0738	8841348	2.8	11.2
2	✓	0740	3441629	2.0	
3	OFF	0730	NA	NA	NA
4	OFF	0730	NA	NA	NA
5	✓	0742	3858518	2.4	17.0
6	✓	0745	4141055	2.0	17.1
7	✓	0747	3674808	1.8	21.9
8	✓	0750	1767726	1.6	18.6
9	✓	0752	2009723	1.6	26.1
10	✓	0754	2023715	1.0	17.3
11	✓	0756	1886526	1.1	15.5
12	✓	0758	0769381	1.2	11.0
13	OFF	0730	NA	NA	NA
14		0800	1013745	1.8	12.7
15	OFF	0730	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0735	4147275	1.3	19.0

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
30	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

2-FEB 95
Date

PAUL CONNER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0740	3845889	2.6	11.0
2	✓	0742	3407234	1.6	—
3	OFF	0730	NA	NA	NA
4	OFF	0730	NA	NA	NA
5	✓	0744	3861835	2.4	16.9
6	✓	0746	4143623	2.0	17.6
7	✓	0748	3677093	1.3	25.5
8	✓	0750	1770078	1.4	18.5
9	✓	0752	2011862	2.0	26.4
10	✓	0754	2025220	1.4	17.4
11	✓	0756	1887658	1.1	15.0
12	✓	0759	0770902	1.4	11.0
13	OFF	0730	NA	NA	NA
14	✓	0802	1016331	1.8	12.0
15	OFF	0730	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0734	4149085	1.2	18.7

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
OFF 1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 3 95
ate

Paul Conover
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0751	3848664	2.2	11.3
2	✓	0754	3409678	1.8	
3	OFF	0742	NA	NA	NA
4	OFF	0742	NA	NA	NA
5	✓	0756	3864994	2.2	16.9
6	✓	0758	4145852	1.7	17.0
7	✓	0800	3679233	1.6	24.3
8	✓	0802	1772347	1.5	~~21.3~~ 18.8
9	✓	0804	2014010	1.4	26.3
10	✓	0806	2026548	.9	17.6
11	✓	0808	1888229	1.0	15.0
12	✓	0810	0772575	1.4	11.3
13	OFF	0742	NA	NA	NA
14	✓	0812	1018826	1.7	12.9
15	OFF	0742	NA	NA	NA
16	✓	✓	✓	✓	✓
17	✓	✓	✓	✓	✓
18	✓	0748	4150911	1.3	18.9

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

Date: 2/4/95

Operator: RICK BENNISON

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0815	3851755	2.4	11.1
2	✓	0818	3412266	1.8	
3	OFF	0800	N/A	N/A	N/A
4	OFF	0800	N/A	N/A	N/A
5	✓	0821	3868317	2.2	16.9
6	✓	0823	4148198	1.8	17.0
7	✓	0827	3681449	1.6	24.4
8	✓	0830	1774621	1.4	18.7
9	✓	0833	2016180	1.6	26.4
10	✓	0836	2028029	1.0	17.4
11	✓	0839	1888714	1.4	14.9
12	✓	0841	0774232	1.4	11.4
13	OFF	0800	N/A	N/A	N/A
14	✓	0844	1021351	1.7	13.0
15	OFF	0800	N/A	N/A	N/A
16	OFF	0800	N/A	N/A	N/A
17	OFF	0800	N/A	N/A	N/A
18	✓	0806	4152801	1.2	19.0

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

ate: 2/5/95

Operator: RICK BENNISON

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	1009	3854838	2.0	11.2
2	✓	1012	3415089	1.8	
3	OFF	1000	N/A	N/A	N/A
4	OFF	1000	N/A	N/A	N/A
5	✓	1015	3871803	2.2	17.0
6	✓	1017	4151056	2.0	17.0
7	✓	1019	3683752	1.4	24.3
8	✓	1021	1777105	1.6	18.7
9	✓	1023	2018498	1.4	26.3
10	✓	1025	2029589	1.2	17.4
11	✓	1027	1889783	1.1	15.0
12	✓	1029	0775930	1.2	11.3
13	OFF	1000	N/A	N/A	N/A
14	✓	1031	1024017 ~~N/A~~ RNG	1.8	12.9
15	OFF	1000	N/A	N/A	N/A
16	OFF	1000	N/A	N/A	N/A
17	OFF	1000	N/A	N/A	N/A
18	✓	0959	4155355	1.6	19.1

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 6 95
Date

PAUL CONOVER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0730	3857174	2.0	11.5
2	✓	0733	3417488	2.0	—
3	OFF	0722	NA	NA	NA
4	OFF	0722	NA	NA	NA
5	✓	0735	3874618	2.2	16.8
6	✓	0738	4153271	2.2	17.6
7	✓	0740	3685658	2.0	22.3
8	✓	0742	1779276	2.0	19.8
9	✓	0744	2020501	1.6	27.0
10	✓	0748	2030934	1.1	18.0
11	✓	0750	1890595	1.8	14.6
12	✓	0752	0777375	1.1	11.3
13	OFF	0722	NA	NA	NA
14	✓	0755	1026303	1.8	12.9
15	OFF	0722	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0726	4157311	1.4	18.3

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
3V	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 7 94 — Date

PAUL CONOVER — Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	1100	3860403	1.9	11.1
2	✓	1102	3420473	2.0	—
3	OFF	1045	NA	NA	NA
4	OFF	1045	NA	NA	NA
5	✓	1104	3878266	2.1	16.7
6	✓	1106	4156404	2.2	17.8
7	✓	1108	3688063	1.5	22.2
8	✓	1110	1781981	1.6	18.9
9	✓	1112	2028068	1.8	27
10	✓	1114	2032624	1.0	18.0
11	✓	1116	1891648	.8	14.9
12	✓	1118	0779172	1.3	11.3
13	OFF	1045	NA	NA	NA
14	✓	1120	1029127	1.8	13.0
15	OFF	1045	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	1053	4159430	1.4	18.5

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 8 95 — Date

PAUL CONNER — Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0715	3862802	1.9	11.4
2	✓	0717	3422572	2.0	—
3	OFF	0707	NA	NA	NA
4	OFF	0707	NA	NA	NA
5	✓	0719	3881126	2.0	16.5
6	✓	0721	4158911	2.2	17.5
7	✓	0723	3689774	1.5	22.1
8	✓	0725	1783576	1.6	18.9
9	✓	0727	2024974	1.8	26.9
10	✓	0730	2033775	1.0	18.0
11	✓	0732	1893684	1.2	18.1
12	✓	0734	0780509	1.3	11.2
13	OFF	0707	NA	NA	NA
14	✓	0736	1031275	1.8	13.1
15	OFF	0707	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0710	4160942	1.5	18.6

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 9 95
Date

PAUL CONOVER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0735	3865631	1.9	11.1
2	✓	0740	3425082	2.0	—
3	OFF	0725	NA	NA	NA
4	OFF	0725	NA	NA	NA
5	✓	0742	3889371	2.1	16.6
6	✓	0744	4161734	2.10	17.6
7	✓	0746	3691757	1.5	22.0
8	✓	0748	1756067	1.6	18.9
9	✓	0750	2077227	1.6	26.6
10	✓	0752	2034307	1.10	18.1
11	✓	0754	1896084	1.9	14.9
12	✓	0756	0752170	1.3	11.6
13	OFF	0725	NA	NA	NA
14	✓	0758	1033903	1.5	13.1
15	OFF	0725	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0750	4162796	1.4	18.6

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 10 95
Date

PAUL CONDUER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0740	3868604	2.0	11.3
2	✓	0742	3427542	1.9	—
3	OFF	0727	NA	NA	NA
4	OFF	0727	NA	NA	NA
5	✓	0744	3887655	2.3	16.8
6	✓	0746	4164647	2.4	17.9
7	✓	0748	3693673	1.5	22.2
8	✓	0750	1788206	1.2	19.0
9	✓	0752	2029437	1.4	27.2
10	✓	0754	2031534	2.0	20.6
11	✓	0756	1898561	1.8	15.6
12	✓	0758	0783518	1.6	11.3
13	OFF	0727	NA	NA	NA
14	✓ 0800	[illegible]	1034933	2.4	9.2
15	OFF	0707	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0732	4164662	1.2	18.0

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 11 95 — Date

PAUL CONOVER — Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	1118	3871545	~~1.4~~ 2.0	11.4
2	✓	1121	3430399	1.9	—
3	OFF	1115	NA	NA	NA
4	OFF	1115	NA	NA	NA
5	✓	1124	3891361	2.3	16.6
6	✓	1127	4168110	2.4	17.9
7	✓	1130	3695962	1.5	22.0
8	✓	1133	1790856	1.2	18.8
9	✓	1136	2031962	1.4	27.0
10	✓	1139	2041540	2.0	20.3
11	✓	1142	1901474	1.8	15.6
12	✓	1145	0785176	1.6	11.0
13	OFF	1115	NA	NA	NA
14	✓	1148	1038573	2.2	9.9
15	OFF	1115	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	1111	4166822	1.2	18.0

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 12 95
Date

PAUL CONOVER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0748	3873720	2.0	11.5
2	✓	0751	8432464	1.9	—
3	OFF	0740	NA	NA	NA
4	OFF	0740	NA	NA	NA
5	✓	0754	3893789	2.2	16.5
6	✓	0757	4170728	2.4	17.9
7	✓	0800	3697682	1.5	22.3
8	✓	0803	1792846	1.2	18.9
9	✓	0806	2033848	1.4	26.9
10	✓	0809	2044679	2.0	20.5
11	✓	0812	1903628	1.8	15.7
12	✓	0815	0787123	1.5	11.2
13	OFF	0740	NA	NA	NA
14	✓	0818	1041520	2.2	11.0
15	OFF	0740	NA	NA	NA
16	✓	✓	✓	✓	✓
17	✓	✓	✓	✓	✓
18	✓	0744	4168500	1.3	18.4

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	—	
7	✓	
3b	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 13-95 — Date

Paul Conover — Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0724	3876169	1.6	16.9
2	✓	0726	3435086	1.3	—
3	OFF	0717	NA	NA	NA
4	OFF	0717	NA	NA	NA
5	✓	0729	3896578	1.4	16.7
6	✓	0731	4173777	2.2	18.1
7	✓	0734	3699611	1.3	22.0
8	✓	0736	1795137	1.5	19.0
9	✓	0738	2036011	1.5	27.0
10	✓	0740	2048409	2.5	20.1
11	✓	0742	1905338	2.0	15.9
12	✓	0745	0788729	1.4	11.0
13	OFF	0717	NA	NA	NA
14	✓	0747	1044360	1.9	12.2
15	OFF	0717	NA	NA	NA
16	✓	✓	✓	✓	✓
17	✓	✓	✓	✓	✓
18	✓	0720	4170518	1.4	18.4

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 14 95
Date

PAUL CONOVER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0730	3878557	1.6	11.0
2	✓	0733	3437511	1.8	—
3	OFF	0719	NA	NA	NA
4	OFF	0719	NA	NA	NA
5	✓	0736	3898965	1.5	17.4
6	✓	0737	4178837	1.5	17.9
7	✓	0739	3701490	1.3	22.0
8	✓	0741	1796497	1.5	18.1
9	✓	0743	2038188	1.8	26.3
10	✓	0745	2051705	1.9	19.6
11	✓	0747	1907295	1.8	41.8
12	✓	0749	0790321	1.3	11.0
13	OFF	0719	NA	NA	NA
14	✓	0751	1046981	1.8	11.9
15	OFF	0719	NA	NA	NA
16	✓	✓	✓	✓	✓
17	✓	✓	✓	✓	✓
18	✓	0722	4172824	1.5	18.7

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 15-95
Date

PAUL CONOVER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0725	3880716	1.3	8.7
2	✓	0727	3440045	1.8	—
3	OFF	0717	NA	NA	NA
4	OFF	0717	NA	NA	NA
5	✓	0729	3900804	1.5	16.3
6	✓	0731	4179460	1.8	17.0
7	✓	0733	3903297	2.3	22.0
8	✓	0735	1799333	1.4	18.3
9	✓	0737	2040363	1.6	26.0
10	✓	0739	2054792	2.3	19.3
11	✓	0741	1909040	1.9	15.6
12	✓	0743	0791954	1.2	11.0
13	OFF	0717	NA	NA	NA
14	✓	0745	1049680	1.8	11.9
15	OFF	0717	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0720	4174534	1.4	19.1

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
8b	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 16 95
Date

Paul CONOVER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0730	3882595	1.4	10.5
2	✓	0732	3442657	.8	—
3	OFF	0720	NA	NA	NA
4	OFF	0720	NA	NA	NA
5	✓	0734	3902704	1.2	16.1
6	✓	0736	4181817	1.4	16.9
7	✓	0738	3705029	1.6	21.9
8	✓	0740	1800173	1.6	18.2
9	✓	0742	2042618	1.8	24.0
10	✓	0744	2058211	2.2	23.1
11	✓	0746	1909290	2.0	12.0
12	✓	0748	0798627	1.2	11.6
13	OFF	0720	NA	NA	NA
14	✓	0750	1052254	1.8	11.7
15	OFF	0720	NA	NA	NA
16	✓	✓	✓	✓	✓
17	✓	✓	✓	✓	✓
18	✓	0724	4176468	1.6	18.2

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
8	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 17 95
ate

PAUL CONOVER
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0725	3884590	1.4	10.6
2	✓	0727	3445220	2.0	—
3	OFF	0712	NA	NA	NA
4	OFF	0712	NA	NA	NA
5	✓	0729	3904313	1.2	16.2
6	✓	0731	4183928	1.5	16.8
7	✓	0733	3706717	1.3	21.8
8	✓	0735	1802033	1.5	18.3
9	✓	0737	2044863	1.6	26.5
10	✓	0739	2061797	2.4	19.1
11	✓	0741	1911487	2.0	18.0
12	✓	0743	0795330	1.6	11.0
13	OFF	0712	NA	NA	NA
14	✓	0745	1054743	.8	11.8
15	OFF	0712	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0718	418444	1.4	18.3

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

2/18/95
ate

RICK BENNISON
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	1606	3886513	2.6	10.5
2	✓	1608	3448334	1.4	—
3	OFF	N/A	N/A	N/A	N/A
4	OFF	1600	N/A	N/A	N/A
5	✓	1611	3905716	2.2	16.0
6	✓	1613	4187676	1.9	17.0
7	✓	1615	3708967	1.1	21.8
8	✓	1617	1804534	1.3	18.2
9	✓	1620	2047893	1.6	26.3
10	✓	1623	2066375	1.4	18.0
11	✓	1626	1915007	2.0	16.0
12	✓	1628	0797650	1.2	11.0
13	OFF	N/A	N/A	N/A	N/A
14	✓	1631	1058037	1.8	11.6
15	OFF	N/A	N/A	N/A	N/A
16	OFF	N/A	N/A	N/A	N/A
17	OFF	N/A	N/A	N/A	N/A
18	✓	1600	4181220	1.4	18.3

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/ Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

2/19/95
ate

RICK BENNISON
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	1901	3890636	2.6	10.7
2	✓	1903	3450589	1.4	
3	OFF	1850	N/A	N/A	N/A
4	OFF	1850	N/A	N/A	N/A
5	✓	1905	3910110	2.4	16.0
6	✓	1907	4190766	2.0	17.1
7	✓	1909	3710776	1.2	21.8
8	✓	1910	1806565	1.2	18.1
9	✓	1912	2050420	1.7	26.1
10	✓	1915	2068127	1.0	18.9
11	✓	1918	1917235	2.0	16.1
12	✓	1920	0799508	1.2	11.1
13	OFF	1850	N/A	N/A	N/A
14	✓	1923	1060620	1.8	11.4
15	OFF	1850	N/A	N/A	N/A
16	OFF	1850	N/A	N/A	N/A
17	OFF	1850	N/A	N/A	N/A
18	✓	1850	4183693	1.4	18.2

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/ Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 20 95
ate

Paul Conover
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0745	3892717	2.6	10.8
2	✓	0747	3451545	1.2	—
3	OFF	0736	NA	NA	NA
4	OFF	0735	NA	NA	NA
5	✓	0749	3912054	2.4	17.0
6	✓	0752	4192100	2.0	16.9
7	✓	0754	3711605	1.1	21.6
8	✓	0756	[redacted]	1807501 1.2	18.0
9	✓	0758	2051614	1.3	26.3
10	✓	0800	2068734	.8	18.5
11	✓	0802	1919046	1.8	15.8
12	✓	0804	0800388	1.4	11.2
13	OFF	0736	NA	NA	NA
14	✓	0806	1061816	1.6	11.5
15	OFF	0735	NA	NA	NA
16	✓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0740	4184811	1.6	19.0

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
7b	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 21 95
Date

PAUL COVOUR
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0748	3896844	2.8	10.8
2	✓	0750	3453809	1.3	—
3	OFF	0740	NA	NA	NA
4	OFF	0740	NA	NA	NA
5	✓	0752	3915651	2.3	16.9
6	✓	0754	4194095	1.8	16.8
7	✓	0756	3713139	1.5	21.4
8	✓	0758	1809153	1.1	17.8
9	✓	0801	2053785	1.5	26.0
10	✓	0803	2020023	2.2	18.3
11	✓	0805	1920948	1.8	15.1
12	✓	0808	0802016	1.3	10.8
13	OFF	0740	NA	NA	NA
14	✓	0810	1064193	1.0	11.4
15	OFF	0740	NA	NA	NA
16	✓	✓	✓	✓	✓
17	✓	✓	✓	✓	✓
18	✓	0744	4186746	1.2	19.0

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 22-95 — Date

PAUL CONOVER — Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0728	3900980	3.0	11.0
2	✓	0731	3955069	1.2	—
3	OFF	0716	NA	NA	NA
4	OFF	0716	NA	NA	NA
5	✓	0733	3919086	2.4	17.0
6	✓	0736	4196420	1.8	17.0
7	✓	0739	3714585	1.1	21.7
8	✓	0741	1810681	1.2	20.1
9	✓	0743	2055894	1.5	15.4
10	✓	0745	2070338	2.2	20.1
11	✓	0747	1923090	1.8	15.4
12	✓	0749	0803628	1.2	11.0
13	OFF	0716	NA	NA	NA
14	✓	0751	1066408	1.6	11.3
15	OFF	0716	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0720	4188384	2.6	19.0

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 23-95 — Paul Crouser

ate — Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0745	3905391	2.8	10.9
2	✓	0747	3456782	1.1	—
3	OFF	0722	NA	NA	NA
4	OFF	0722	NA	NA	NA
5	✓	0749	3922528	2.4	17.0
6	✓	0752	4199019	2.0	17.0
7	✓	0754	3716050	2.0	21.8
8	✓	0756	1812156	1.1	17.9
9	✓	0759	2057928	2.6	26.0
10	✓	0802	2072771	1.8	18.7
11	✓	0807	1925144	1.8	15.2
12	✓	0809	0805220	1.2	11.0
13	OFF	0722	NA	NA	NA
14	✓	0811	1066563	2.0	REPAIRED STARTER & CONTROL WITH PARTS FROM 17
15	OFF	0722	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0725	4190480	2.4	22.1

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 24-96
Date

Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0710	3908561	2.1	10.2
2	✓	0712	3458316	1.2	—
3	OFF	0701	NA	NA	NA
4	OFF	0701	NA	NA	NA
5	✓	0714	3925947	2.4	16.7
6	✓	0716	4261801	2.0	17.0
7	✓	0718	3717466	1.0	21.5
8	✓	0720	1813405	.8	17.2
9	✓	0723	2060144	1.4	25.9
10	✓	0725	2074865	1.8	18.8
11	✓	0727	1925129	1.8	11.8
12	✓	0729	0805232	1.2	10.2 Reset Breaker
13	OFF	0701	NA	NA	NA
14	✓	0731	1069131	1.2	10.8
15	OFF	0701	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0705	4192904	2.2	15.1

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

2/25/95
ate

RICK BENNISON
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	2320	3913216	2.1	10.3
2	✓	2322	3461037	1.3	—
3	OFF	2309	N/A	N/A	N/A
4	OFF	2309	N/A	N/A	N/A
5	✓	2323	3931417	2.3	16.6
6	✓	2325	4206401	2.0	17.1
7	✓	2327	3719797	1.0	21.4
8	✓	2329	1815250	0.8	17.1
9	✓	2331	2063845	1.3	26.0
10	✓	2333	2078101	1.7	18.1
11	✓	2335	1928397	1.8	11.8
12	✓	2337	0807836	1.2	10.3
13	OFF	2309	N/A	N/A	N/A
14	✓	2339	1071505	1.2	10.9
15	OFF	N/A	N/A	N/A	N/A
16	OFF	N/A	N/A	N/A	N/A
17	OFF	N/A	N/A	N/A	N/A
18	✓	2309	4197070	2.2	15.3

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
5	✓	
4	OFF	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

2-26-95
ate

Paul Conover
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	1535	3914921	2.1	10.3
2	✓	1539	3462175	1.3	—
3	OFF	1520	NA	NA	NA
4	OFF	1520	NA	NA	NA
5	✓	1548	3933647	2.3	16.6
6	✓	1545	4208361	2.0	17.2
7	✓	1548	3720762	1.0	21.5
8	✓	1551	1816019	.8	17.2
9	✓	1554	2065359	1.3	25.8
10	✓	1557	2079407	1.7	17.9
11	✓	1600	1929576	1.8	11.8
12	✓	1603	1808872	1.2	10.3
13	OFF	1520	NA	NA	NA
14	✓	1606	1072369	1.2	10.7
15	OFF	1520	NA	NA	NA
16	✓	✓	✓	✓	OF
17	✓	✓	✓	✓	OF
18	✓	1531	4198582	2.2	15.5

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/ Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 27-95
Date

PAUL CONNOR
Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0740	3916458	1.8	12.6
2	✓	0742	3463221	1.0	—
3	OFF	0731	NA	NA	NA
4	OFF	0731	NA	NA	NA
5	✓	0744	3985631	2.0	16.9
6	✓	0746	4210046	1.6	17.0
7	✓	0748	3721739	19	28.0
8	✓	0750	1816758	.8	17.2
9	✓	0752	2066541	1.6	25.8
10	✓	0754	2081047	1.8	18.1
11	✓	0756	1930748	1.1	16.0
12	✓	0758	0809882	1.0	11.0
13	OFF	0731	NA	NA	NA
14	✓	0800	1073073	2.1	10.8
15	OFF	0731	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0736	4199969	1.4	12.5

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DAILY OPERATOR LOG SHEET
GROUND WATER EXTRACTION SYSTEM

FEB 28 95 — Date

Paul Conover — Operator

GROUND WATER EXTRACTION PUMPS

Extraction Well Number	Operating (✓)	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments and Depth to Water
1	✓	0712	3918932	2.0	10.8
2	✓	0714	3464580	1.0	—
3	OFF	0702	NA	NA	NA
4	OFF	0702	NA	NA	NA
5	✓	0716	3938597	1.9	16.9
6	✓	0718	4212486	~~1.4~~ 1.7	16.9
7	✓	0720	3723035	1.0	~~16.9~~ 21.8
8	✓	0722	1817848	1.0	17.1
9	✓	0725	2068930	1.8	26.0
10	✓	0727	2083441	1.6	16.0
11	✓	0730	1932413	1.2	15.9
12	✓	0732	0811436	1.0	11.0
13	OFF	0702	NA	NA	NA
14	✓	0734	1075545	2.0	12.6
15	OFF	0702	NA	NA	NA
16	↓	↓	↓	↓	↓
17	↓	↓	↓	↓	↓
18	✓	0708	~~8242668~~	2.2	16.5

FREE OIL RECOVERY PUMPS

Well Number	Operating (✓)	Observations/Comments
1	OFF	
2	✓	
4	OFF	
5	✓	
6	✓	
7	✓	
36	✓	

DFSP GROUND-WATER REMEDIATION SYSTEM

FEB 95
Month and Year

RAIN GAGE

Day	Total Rainfall (amount in inches)	Time	Operator Initials	Comments
1			JCL	CLEAR COLD
2			JCL	CLEAR COOL
3			JCL	CLEAR COOL
4			RAB	CLEAR WINDY COOL
5			RAB	CLEAR COLD
6			JCL	CLEAR COLD
7			JCL	CLOUDY COOL
8			JCL	CLEAR COLD
9			JCL	CLEAR COLD
10			JCL	RAIN COOL
11			JCL	COOL RAIN
12			JCL	COOL CLEAR
13			JCL	COLD CLEAR
14			JCL	CLEAR COOL
15			JCL	OVERCAST COOL
16			JCL	OVERCAST MILD
17			JCL	FOGGY MILD
18			RAB	RAIN/MILD
19			RAB	CLOUDY/MILD
20			JCL	RAIN MILD
21			JCL	CLEAR COOL
22			JCL	CLEAR COOL
23			JCL	CLEAR MILD
24			JCL	CLEAR MILD
25			RAB	CLEAR/MILD
26			JCL	CLEAR WARM
27			JCL	CLEAR WARM
28			JCL	CLOUDY MILD
29				
30				
31				

U.S. Geological Survey
Conductivity and Temperature Measurements at Extraction Wells

Year FB13
Month 95

Day	Anal. Init.	EW# 9 Time	Cond uM	Temp C	EW# 10 Time	Cond uM	Temp C	EW# 11 Time	Cond uM	Temp C
1	QLL	0805		19	0810		20	0812		20
2	QLL	0815		20	0818		21	0822		21
3	QLL	0815		19	0817		20	0820		21
4	RAB	0852		19	0854		20	0856		20
5	RAB	1038		19	1039		20.5	1041		20
6	QLL	0753		18	0800		19.5	0804		19.5
7	QLL	1124		20	1126		21	1128		21
8	QLL	0740		18	0743		19	0745		20
9	QLL	0801		17.5	0804		18	0808		19
10	QLL	0803		19	0806		18.5	0809		19.5
11	QLL	1152		19	1156		19	1159		20
12	QLL	0825		19	0828		19	0832		20
13	QLL	0750		18	0753		18	0756		19
14	QLL	0755		19	0759		18.5	0803		20
15	QLL	0750		20	0752		19.5	0754		20
16	QLL	0753		21.5	0755		21	0757		21
17	QLL	0748		21	0751		21	0755		21
18	RAB	1641		20	1642		20	1643		20.5
19	RAB	1932		20	1933		20	1934		19.5
20	QLL	0810		19	0812		19.5	0814		19.5
21	QLL	0812		19	0815		19.5	0817		20
22	QLL	0816		19.0	0818		19.0	0820		20
23	QLL	0900		19	0903		19	0903		19
24	QLL	0735		20	0738		20.5	0742		19.5
25	RAB	2339		18.5	2343		19	2345		19
26	QLL	1610		19	1614		19	1616		19
27	QLL	0806		20	0806		20.5	0810		21
28	QLL	0838		20.5	0842		22	0844		22
29										
30										
31										

CLORIDE

U.S. Geological Survey

Conductivity and Temperature Measurements at Extraction Wells

Year '95

Month FEB

Day	Anal. Init.	EW# 9 Time	Cond uM	Temp C	EW# 10 Time	Cond uM	Temp C	EW# 11 Time	Cond uM	Temp C
1	GCC		19			17			90	
2	GCC		16			28			91	
3	GCC		24			29			93	
4	RAB		19			18			96	
5	RAB		25			24			79	
6	GCC		20			22			87	
7	GCC		23			28			83	
8	GCC		29			24			54	
9	GCC		36			29			70	
10	GCC		25			25			68	
11	GCC		29			24			67	
12	GCC		24			14			70	
13	GCC		20			20			70	
14	GCC		18			30			73	
15	GCC		19			22			70	
16	GCC		16			21			73	
17	GCC		17			23			71	
18	RAB		16			21			77	
19	RAB		19			24			79	
20	GCC		18			22			80	
21	GCC		18			24			81	
22	GCC		23			30			74	
23	GCC		23			180			81	
24	GCC		21			28			62	
25	RAB		23			31			82	
26	GCC		22			29			80	
27	GCC		22			31			85	
28	GCC		15			28			81	
29										
30										
31										

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 1 95 — Date

PAUL CONNOR — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0807	00020117	NA	OFF
B (2)	0807	03655500	4.5	
C (3)	0807	00028552	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 2 95 — Date

PAUL CONNOR — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0825	00028547	NP	OFF
B (2)	0825	03662/56	4.5	
C (3)	0825	00028500	NP	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMITE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 3 95 — Date

Pam Carver — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0823	00020117	NA	OFF
B (2)	0823	03668588	4.5	
C (3)	0823	00028500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

Date: 2/4/95 Operator: _____

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0858	00020117	N/A	OFF
B (2)	0858	03675136	4.5	
C (3)	0858	00028500	N/A	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

Date: 2/5/95

Operator: RICK BENNISON

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	1044	00020117	N/A	OFF
B (2)	1044	03681894	4.5	
C (3)	1044	00028590	N/A	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 6 95 — Date

PALCONOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0811	00020117	MT	OFF
B (2)	0811	03687431	415	
C (3)	0811	00028500	MT	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 7 95 — Date

PAUL CONOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	1132	00020117	NA	OFF
B (2)	1132	03695573	4.5	
C (3)	1132	00285CU	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 8-95 — Date

PAUL CONVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0749	00020117	NA	OFF
B (2)	0749	03701517	4.5	
C (3)	0749	00025500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 9 95 — Date

PAUL COVALT — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0809	00020117	NA	OFF
B (2)	0809	03708539	4.15	
C (3)	0809	00025500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 10 95 — Date

PAUL CONOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0813	0002017	NA	OFF
B (2)	0813	03714994	45	
C (3)	0813	00285000	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 11 95 — Date

PAM CANOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	1201	00020117	NA	OFF
B (2)	1201	03722342	45	
C (3)	1201	00025500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 12 95 — PAUL CLEVELAND

Date — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0822	0002017	NA	OFF
B (2)	0822	03727645	4.4	
C (3)	0822	00285 00	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (√)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 13-95 — Date

PAUL CONNER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0802	00020117	NA	OFF
B (2)	0802	03733881	4.5	
C (3)	0802	00025500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (√)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 14-95 — Date

PAUL CONOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0811	00020117	NA	OFF
B (2)	0811	03740173	4.5	
C (3)	0811	00028500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (√)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 15-95 — Date

PAUL CONOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0800	00020117	NA	OFF
B (2)	0800	03746304	4.5	
C (3)	0800	00285cc	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 16 95 — Date

PAUL CONNOR — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0800	00020117	NA	OFF
B (2)	0800	03752463	4.5	
C (3)	0800	00028670	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 17 95 — Date

Paul Conover — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0802	00020117	NA	OFF
B (2)	0802	03758644	4.5	
C (3)	0802	00028500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (√)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	Bromide			
2					
3	OFF	Nitrate			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

2/18/95
Date

RICK BENNISON
Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	1632	00020117	N/A	OFF
B (2)	1632	03766937	4.5	
C (3)	1632	00028500	N/A	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

2/19/95 — Date

RICK BENNISON — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	1923	00020117	N/A	OFF
B (2)	1923	03773649	4.5	
C (3)	1923	00028500	N/A	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE	1		
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 20 95 Paul Cavender

Date Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0815	00020117	NA	OFF
B (2)	0815	03777416	4.5	
C (3)	0815	00028900	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF				
2					
3	OFF				
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 21 95 — Date

PAUL CENALDR — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0820	00020117	NT	OFF
B (2)	0820	03784446	4.5	
C (3)	0820	00028500	NT	OFF

CHEMICAL PUMPS

Pump Number	Operating (√)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 22 95 — Date

P Gal Converter — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0810	00000117	NA	off
B (2)	0810	03791393	4.5	
C (3)	0810	00028500	NA	off

CHEMICAL PUMPS

Pump Number	Operating (√)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 23-95 — Date

PAUL CONAKER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0915	00020117	NA	OFF
B (2)	0915	03798680	4.5	
C (3)	0915	00028500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (√)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 24 - 95 — Date

PAUL CONOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0746	0002017	NA	OPR
B (2)	0746	03805156	45	
C (3)	0746	00028500	NA	OPR

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OPR	Bromide			
2					
3	OPR	Nitrate			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

2/25/95 — Date

RICK BENNISON — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	2342	00020117	N/A	OFF
B (2)	2342	03816587	4.5	
C (3)	2342	00028500	N/A	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

2-26-95 — Date

Paul Conover — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	1620	00020117	NA	OFF
B (2)	1620	03821240	4.5	
C (3)	1620	00028520	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 27-95 — Date

PAUL CONOVER — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0812	00020117	NA	OFF
B (2)	0812	03825880	4.5	
C (3)	0812	00028500	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BROMIDE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

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DAILY OPERATOR LOG SHEET
GROUND WATER RECHARGE SYSTEM

FEB 28-95 — Date

PAUL CONNOR — Operator

INFILTRATION GALLERY

Lateral Number	Time (Military)	Totalizer Reading	Calculated Flowrate (gpm)	Observations/Comments
A (1)	0745	00020117	NA	OFF
B (2)	0745	08832630	4.5	
C (3)	0745	00285CC	NA	OFF

CHEMICAL PUMPS

Pump Number	Operating (✓)	Chemical Feed/Concentration	Feed Rate (mL/min) check weekly	Remaining Volume (gal)	Observations/Comments
1	OFF	BRANIPE			
2					
3	OFF	NITRATE			
4					
5					
6					
7					
8					
9					

CHEMICAL INVENTORY

Chemical	Drums on Hand	Concentration (percent)	Observations/Comments (Change drum?, etc.)
Sodium nitrate			
Sodium bromide			

NOTES

DFSP GROUND-WATER REMEDIATION SYSTEM

FEB 95

Month and Year

FLUME ON EAST LAKESIDE DRIVE

Day	Water Level (in ft. accurate to 0.00)	Time	Operator Initials	Comments
1	2.8		GCC	
2	2.8		GCC	REPAIRED UNDERFLOW
3	3.1		GCC	
4	3.4		RAB	
5	3.1		RAB	
6	2.9		GCC	BRUSHED OUT
7	2.4		GCC	BRUSHED OUT
8	2.3		GCC	BRUSHED OUT
9	2.5		GCC	BRUSHED OUT
10	6.0		GCC	
11	3.8		GCC	BRUSHED OUT
12	3.4		GCC	BRUSHED OUT
13	2.7		GCC	BRUSHED OUT
14	2.7		GCC	BRUSHED OUT
15	2.7		GCC	BRUSHED OUT
16	2.8		GCC	BRUSHED OUT
17	2.7		GCC	BRUSHED OUT
18	4.8		RAB	BRUSHED OUT
19	3.0		RAB	BRUSHED OUT
20	2.7		GCC	BRUSHED OUT
21	2.9		GCC	BRUSHED OUT
22	2.7		GCC	BRUSHED OUT
23	2.8		GCC	BRUSHED OUT
24	2.5		GCC	BRUSHED OUT
25	2.5		RAB	BRUSHED OUT
26	2.7		GCC	BRUSHED OUT
27	2.5		GCC	BRUSHED OUT
28	2.3		GCC	BRUSHED OUT
29				
30				
31				

DFSP GROUND WATER REMEDIATION SYSTEM
COMPLIANCE MONITORING PROGRAM
NORTH CHARLESTON SEWER DISTRICT

MONTH FEB, 19 95

Day	Time	ON-SITE ANALYSIS: TOTALIZER READING	FLOW GPD	pH S.U. and TEMP in °C	OPERATOR INITIALS	CHECK DATE LAB SAMPLES COLLECTED
		27496000				
1	0808	27520760	24760	6.7 17	Gce	
2	0828	27545285	24525	6.6 18	Gce	
3	0824	27568480	23195	6.7 18	Gce	
4	0858	27591915	23435	6.6 18.5	RAB	
5	1044	27617185	25270	6.6 17.5	RAB	
6	0812	27638080	20895	6.7 17.5	Gce	
7	0835	27664785	26705	6.7 18	Gce	
8	0750	27685485	20700	6.7 16	Gce	
9	0813	27709820	24335	6.6 15	Gce	
10	0815	27734945	25125	6.7 16	Gce	
11	1202	27764948	30003	6.7 17	Gce	
12	0823	27787080	22132	6.6 18	Gce	
13	0805	27811805	24725	6.7 17	Gce	
14	0811	27835580	24775	6.7 17.5	Gce	✓
15	0805	27858870	23290	6.7 18	Gce	
16	0800	27880715	21845	6.6 18.5	Gce	
17	0804	27903880	23165	6.7 19	Gce	
18	1642	27935465	31585	6.6 17	RAB	
19	1923	27962325	26860	6.6 19	RAB	
20	0815	27974845	12520	6.6 18	Gce	
21	0821	27997500	22655	6.7 18	Gce	
22	0811	28021215	23715	6.7 18	Gce	
23	0915	28043755	22040	6.7 18	Gce	
24	0751	28062850	19045	6.7 18	Gce	
25	2342	28098310	35960	6.6 16.5	RAB	
26	1621	28113085	14775	6.7 18.0	Gce	
27	0813	28126805	13720	6.7 19.0	Gce	
28	0795	28147530	20725	6.6 18.5	Gce	
29						
30						
31						
Max. Permit Limit				8.5		
Max. Observed						
Avg. Permit Limit				6.5		
Avg. Observed						

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